		Docket Number (Option	Application Number				
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	se several sheets if necessary)	Applicant(s)  J.J. GARCIA-LUNA-ACEVES; CHRISTINA PARSA					
		Filing Date AUGUST 30, 2001	Group Art Unit				
*EXAMINER	OTHER DOCUMENTS (Including Auguor, Title						
INITIALIA			recordings of 15th IEEE				
	Bakre, A. and Badrinath, B.R., "I-TCP: INDIRECT TCP FOR MOBILE HOSTS," In Proceedings of 15th IEEE						
( JAN 1 8 2002 )	- Larry 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2						
The state of the s	Malakrishnan, H. et al., "A COMPARISON OF MECHANISMS FOR IMPROVING TCP PERFORMANCE OVER						
PADE MARKUS V	WIRELESS LINKS," IEEE/ACM Transactions on Networking, Vol. 6, No. 5; December, 1997.						
	Balakrishnan, H. et al., "IMPROVING RELIABLE TRANSPORT AND HANDOFF PERFORMANCE IN CELLULAR						
//S	WIRELESS NETWORKS," ACM Wireless Networks Journal, Vol. 1, No. 4, pp. 1 thru 19, December, 1995.						
Brakmo, L.S. et al., "TCP VEGAS: NEW TECHNIQUES FOR CONGESTION DETECTION AND AVOIDAL							
	In Proceedings SIGCOMM '94, pp. 1 thru 12, London, United Kingdom, Aug/Sept, 1994.						
Brown, Kevin and Singh, Suresh, "M-TCP: TCP FOR MOBILE CELLULAR NETWORKS," Computer Con							
	Review, Vol. 27, No. 5, pp. 19-43, October, 1997.						
10	Caceres, R. and Iftode, L., "IMPROVING THE PE	RFORMANCE OF RELIABLE TRA	NSPORT PROTOCOLS IN				
	MOBILE COMPUTING ENVIRONMENTS," IEEE Journal on Selected Areas in Communication, Vol. 13, No. 5,						
	pp. 1 thru 17, 1995.						
44	Chaskar, H. et al., "ON THE DESIGN OF INTERFACES FOR TCP/IP OVER WIRELESS," In MILCOM '96						
	Conference Proceedings, Vol. 1, No. 3, pp. 199-203, October, 1996.						
01	Clark, D.D. et al., "NETBLT: A HIGH THROUGHPUT TRANSFER PROTOCOL," In Proceedings SIGCMM,						
	pp. 353-359, Stowe, Vermont, August, 1987.						
11	Cobb, J. and Agrawal, P., "CONGESTION OR CORRUPTION? A STRATEGY FOR EFFICIENT WIRELESS TCP						
S s	SESSIONS," In Proceedings IEEE Symposium on Computers and Communications, pp. 1 thru 6, June, 1996.						
1.1 I	Fall, Kevin and Floyd, Sally, "SIMULATION-BASED COMPARISONS OF TAHOE, RENO, AND SACK TCP,"						
	Computer Communications Review, Vol. 26, No. 3, pp. 5-21, July, 1996.						
AM I	Floyd, S. and Jacobson, V., "RANDOM EARLY DETECTION GATEWAYS FOR CONGESTION AVOIDANCE,"						
	IEEE/ACM Transactions on Networking, Vol. 4, No. 1, pp. 397-413, August, 1993.						
//// J	Jacobson, R. et al., "TCP EXTENSIONS FOR HIGH PERFORMANCE," Technical Report, Technical Report No. 1185,						
	pp. 1 thru 37, May, 1992.						
EXAMINER		DATE CONSIDERED					

\*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

## Docket Number (Optio **Application Number** UC200 09/945,106 INFORMATION DISCLOSURE CITATION Applicant(s) (Use several sheets if necessary) J.J. GARCIA-LUNA-ACEVES; CHRISTINA PARSA Filing Date Group Art Unit **AUGUST 30, 2001** EXAMINER OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.) Jacobson, V. and Floyd, S., "TCP AND EXPLICIT CONGESTION NOTIFICATION," Computer Communication Review, Vol. 24, No. 5, pp. 8 thru 23, October, 1994. Karn, P. and Partridge, C., "IMPROVING ROUND-TRIP TIME ESTIMATES IN RELIABLE TRANSPORT PROTOCOLS," Computer Communication Review, Vol. 17, No. 5, pp. 2 thru 7, August, 1987. Keshav, S., "PACKET-PAIR FLOW CONTROL," pp. 1 thru 45, http://www.cs.cornell.edu/skeshav/papers.html. Lakshman, T.V. et al., "WINDOW-BASED ERROR RECOVERY AND FLOW CONTROL WITH A SLOW ACKNOWLEDGEMENT CHANNEL: A STUDY OF TCP/IP PERFORMANCE," In Proceedings IEEE INFOCOM '97, No. 3, pp. 1199 thru 1209, April, 1997. Lin, D. and Kung, H.T., "TCP FAST RECOVER STRATEGIES: ANALYSIS AND IMPROVEMENTS," In Proceedings IEEE INFOCOM '98, pp. 1 thru 9, April, 1998. Kalampoukas, L. et al., "EXPLICIT WINDOW ADAPTATION: A METHOD TO ENHANCE TCP PERFORMANCE," In Proceedings IEEE INFOCOM '98, pp. 242-251, April, 1998. [Published at University of California-Santa Cruz on August 21, 1997. Mathis, M. et al., "TCP SELECTIVE ACKNOWLEDGE OPTIONS," Technical Report, Technical Report RFC 2018, pp. 1 thru 12, October, 1996. Samaraweera, N.K.G., "NON-CONGESTION PACKET LOSS DETECTION FOR TCP ERROR RECOVERY USING WIRELESS LINKS," IEEE Proceedings-Communications, Vol. 146, pp. 222-230, August, 1999. Parsa, C. et al., "IMPROVING TCP PERFORMANCE OVER WIRELESS NETWORKS AT THE LINK LAYER," ACM Mobile Networks and Applications, Vol. 5, No. 1, pp. 1 thru 25, March, 2000. Postel, J.B., "TRANSMISSION CONTROL PROTOCOL," Technical Report, Information Sciences Institute, Cover + i thru iii + pp. 1 thru 85, RFC 793, September, 1981. Waldby, J. et al., "TOTAL ACKNOWLEGEMENTS: A ROBUST FEEDBACK MECHANISM FOR END-TO-END CONGESTION CONTROL," Sigmetrics '98, Performance Evaluation Review, vol. 26, pp. 1 thru 23, 1998. Wang, Z. et al., "ELIMINATING PERIODIC PACKET LOSSES IN THE 4.3 TAHOE BSD TCP CONGESTION CONTROL ALGORITHM," Computer Communication Review, Vol. 22, No. 2, pp. 9 thru 16, April, 1992. EXAMINER DATE CONSIDERED EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and

not considered. Include copy of this form with next communication to applicant.

INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)			Docket Number (Option UC200 2-2	Application Number		
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		•	Filing Date AUGUST 30, 2001	Group Art Unit		
*EXAMINER		OTHER DOCUMENTS (Including Author, Title				
INITIAL	Wang, Z. et al., "A NEW CONGESTION CONTROL SCHEME: SLOW START AND SEARCH,"					
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119		Protocols, Toronto, Car	nada; Page 1 thr	u 9; Octob	er 31 thru Novemb	er 3, 1999	•			
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			Garcia-Luna-Aceves et al.				
		Filing Date 08/30/01	Group Art Unit				
*EXAMINER INITIAL	OTHER DOCUMENTS (Including Auth						
JC60	Parsa et al., "Differntiating Congestion vs. I Links", Proceedings of the IEEE Conferenc 2000, pp. 90-93.	Random Loss: A Method for Improving to on Wireless Communications and Net	TCP Performance over Wireless working, Chicago, IL, September 23-28				
HAP TOOL	Parsa et al., "Improving TCP Congestion C the 7th International Conference on Networ 213-221.	ontrol over Internets with Heterogeneous k Protocols (ICNP '99), Ontario, Cana	us Transmission Media", Proceedings of da, October 31-November 3, 1999, pp.				
CATENDA	Cobb et al., "Congestion or Corruption? A S International Symposium on Computers and	Strategy for Efficient Wireless TCP Ses d Communications, 1995, pp. 262-268.	sions", Proceedigns of the IEEE				
	Kim et al., "Improving Congestion Control International Conference on Computer Com	Performance Through Loss Differentia nmunications and Networks, Boston, M.	tion", Proceedings of the 8th A, Oct. 11-13, 1999, pp. 412-418.				
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